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Cement, by K. Seidel, 6 pp.

GERMAN, per, Zement-Kalk-Gips, Vol VI, No 11, 1953,
pp 413-415.

S.L.A. Tr 638/1955

Sci - Engineering
Apr 1957 CES/dex

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Model Considerations on the Conveying and
Heating of the Material in the Rotary Kiln,
by W. Anselm, E. Schawarz-Bergkampff.

GERMAN, per, Zement-Kalk-Gips, No 5,
1954, pp 101-104.

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Sci - Engr
May 62

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The Ectasy Klein-Determination of Dimensions and
Model Similarity, by W. Anselm.

GERMAN, per, Zenent-Kalk-Gips, special issue,
Vol V, 1954, pp 127-140.

ASLID-GB39

Sci
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The Role of "Fines" in Portland Cement, by
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GERMAN, per, Zement-Kalk-Gips, Vol VII, Apr 1954,
pp 160-166.

S.L.A. Tr 115

REur - Germany
Scientific - Engineering

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The Acid-Resistant ~~Coat~~^{Coat}-Concrete, by W. Wittekindt,
13 pp.

GERMAN, per, Zement-Kalk-Gips, Vol VII, Sep 1954,
pp 337-342.

SLA Tr 647/1955

Sci - Engr

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The Shaft Kiln of Tomorrow, by E. Spohn, 14 pp.

GERMAN, per, Zement-Kalk-Gips, Vol VII, Nov 1954,
pp 409-415.

S.L.A. Tr 674/1955

Sci - Engineering
Apr 1957 CTS/dex

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Measurement of Consistence of Gypsum Paste and
Gypsum Mortar, by W. Albrecht.

GERMAN, per, Zement-Kalk-Gips, Vol VIII, 1955,
pp 19-23.

ASLIB-GB21.

Sci

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A Method for the Titrimetric Determination of
Silica in Cements, by E. Zymny, 2 pp.

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GERMAN, per, Zement-Kalk-Gips, Vol VIII, No 2,
Feb 1955, p 59.

81A Tr 1383/1955

8c1 - Min/Met

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New Type of Bearing for Rotary Kilns Without Horizontal Thrust, by K. Milowicz, 10 pp.

GERMAN, per, Zement-kalk-gips, Vol VIII, No 7, Jul 1955, pp 240-242.

S.L.A. No 364/1956

Scientific - Engineering

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A New Type of Feeder, by E. Vocs, F. Grosser, 13 pp.

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Aug 1955, pp 268-272.

S.L.A. No 405/1956

Scientific - Engineering

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7 pp.

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Sep 1955, pp 322-325.

S.L.A. No 337/1956

Scientific - Engineering 34, 311

The Flow Properties of Non-Newtonian Liquid, by F.
Becker, W. Schramli, 20 pp.

GERMAN, per, Zement-kalk-gips, Vol VIII, No 10,
Oct 1955, pp 345-352.

S.L.A. No 285/1956

Scientific - Chemistry

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INSDOC-T1532. Experiences with concrete containing plastic additives. Zement-Kalk-Gips, 10, p.355-361, 1955.

The Manufacture of Soft-Burned Quicklime with Doubled
Shaft Kiln Output, by H. Eigen. ^u

GERMAN, per, Zement-Kalk-Gips, Vol VIII, Nov 1955,
pp 381-386.

ASLIB-GB39

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Burning of Small-Sized Limestone in the
Coke-Fired Shaft Kiln, by H. Eigen.

GERMAN, per, Cement-Kalk-Gips, Vol VIII,
1955, pp 397-400.

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Sci - Engr
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Dust Emission in Cement Plants, by E. Ruhland,
25 pp.

GERMAN, per, Zement-Kalk-rips, Vol IX, No 3,
Mar 1956, pp 103-111.

S.L.A. Tr 1167/1956

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Main Econ
Sci - Engineering
Oct 56 CTS

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Structural Stresses in Concrete, by B. Henk, UNCL

GERMAN, per, Zement-Kalk-Gips, Vol IX, No 3,
1956, pp 111-120.

DSIR/33084/CT

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EEur Germany
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Water Combined in Cement, by R. Hayden. UNCL

GERMAN, por, Zement, Kalk, Gips, Vol IX, No 3,
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Sci. - Min/Mat; Engr
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Colorimetric Determination of Aluminium Iron
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Sept 69

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Some Physical and Chemical Investigations on the
Burning and Slaking of Lime, by G. Pohl.

GERMAN, per, Zement-Kalk-Gips, Vol IX, Jun 1956,
pp 275-284.

ASLIB-0239

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Calorimetric Determination of Al₂O₃ in Iron
and Titanium in Cement, by H. Vollmer

GERMAN, per, Zement-Kalk-Gips, Vol IX, No 5,
1956, pp 186-194.

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May 63

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Chimney: New Shaft Kiln With Stepped Combustion.
by H. Elger.

GERMAN, 1950, Zement-Kalk-Gips, Vol IX, No 6,
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May 52

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The Bruning of Gypsum for Flooring, Plastering
and Building Purposes in the Rotary Kiln, by
R. Zollinger.

OSERMAN, per, Zement-Kalk-Gips, Vol IX,
1956, pp 319-328.

CSIRO

Sci - Engr
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The Influence of the Clay Minerals on Dust
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H. E. Schwiete, 10 pp.
GERMAN, per, Zement-Kalk-Grips, Vol 9, No 8,
1956, pp 351-357.
X-7484

Aug 71

Alkali Phases in Portland Cement. Parts I-III, by
Y. Suzukawa, 31 pp.

GERMAN, per, Zement-Kalk-Gips, Vol IX, 1956,
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The Significance of Calorimetric Measurements for the Manufacture and Testing of Plasters, by E. Kipeltauer.

GERMAN, per, Zement-Kalk Gips, Vol IX, No 11, 1956, pp 501-505.

CSIRO 3662

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Bagging Problems: Findings of Tests With
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GERMAN, per, Zement-Malk-Gips, No 12, 1956,
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ASLIB-GB39

Sci - Engr

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A Modern Packing Installation for Compressed
Cement and Hydrated Lime, by W. Frankengerger.

GERMAN, par, Zement-Balk-Gips, Dec 1956, pp
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ASLIB-GB39

Sci - Engr

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The Quantitative Determination of Potassium with
Sodium Tetrphenyl Borate, by W. Lieber, 5 pp.

GERMAN, per, Zement-Kalk-Gips, Vol X, No 1, 1957,
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SLA 58-658

Sci

Aug 59

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Study of Cement Raw Mixes Suitable for
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~~JAP~~ ^{Survey} ~~per~~, Cement-Kalk Gips, Vol X, No 3,
March 1957, pp 95-99.

~~SLA 57-2287~~

SLA 57-2287

Sci

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Bues, H.
THE BURNING OF HIGH-GRADE PORTLAND CEMENT
CLINKER IN THE AUTOMATIC SHAFT KILN. [1962]
9p. (figs. refs. omitted).
Order from SLA \$1.10

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Summary trans. of Zement-Kalk-Gips (West Germany)
1957 [v. 10] no. 5, p. 187-194.

DESCRIPTORS: Combustion, *Cements, Production,
Materials, Sintering furnaces

(Materials, TT, v. 9, no. 11)

1. Title: Clinker
1. Bues, H.

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Some Investigations Concerning Hardening Pressure and Hardening Time in the Sand-Lime Brick Industry, by G. Pohl.

GERMAN, per, Zement-Kalk-Gips, Vol X, No 9, 1957, pp 354-359.

CSIRO 3914

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Evolution of Research Control in Microbiology
Compiled by Tatsuo Tanaka, 9 pp.

OSCAL, Int. Zement-Werk-Stift., Vol. 1, 1957,
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SIA 59-⁵1066

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Standardization of Building and Technical
Gypsums, by H. Grinne.

GERMAN, por, Zement-Kalk-Gips, No 12, 1957,
pp 513-515.

C. S. I. R. O. T-057

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Particle Shape and Particle Size of Dry and Wet-
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GERMAN, pct, Zement-Kalk-Gip, Vol XI, No 2, 1958,
pp 41-49.

GB 334/CT 5-20
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May 60

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Schimmel, G.
LIME PUTTY UNDER THE ELECTRON MICROSCOPE.
Jul 61
Order from C. L. A. I. R. A. Laboratories, Church Street,
Welwyn, Herts, England £2 CLAIRA T. 6

Trans. of Zement-Kalk-Gips (West Germany) 1958,
v. 11, no. 2, p. 46-49.

DESCRIPTORS: *Calcium compounds, Oxides,
Electron microscopes.

TT-63-22904

- I. Title: Putty
- I. Schimmel, G.
- II. CLAIRA-T-6
- III. Chalk Lime and Allied
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Association (G. Brit.)

(Materials, TT, v. 11, no. 4)

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Some Problems of the Rotary Cement Kiln, by
H. Hagen,

GERMAN, per, Zement-Kalk-Gips, Vol XI, pp 56-63,
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Chief Librarian, C.S.I.R.O.
314 Albert Street
East Melbourne, Australia
C. 2, Vic.

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Theoretical Possibilities for the Grindability
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Tanaka, 5 pp.

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1958, pp 92-94.

SLA 59-1507.

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Operational Adjustment Of Dish Type Nodulisers,
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GERMAN, per, Zement-Kalk-Gips, Vol XI, No 4,
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CSIRO
SLA 63-16130

Sci. M/M

Oct. 62

Hydraulic Properties of Glasses, by F. Liel, F.W.
Locher.
GERMAN, per, Zement-Malk-Gips, Vol.11, No. 6, 1950,
pp 245-253
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July 1957

334-447

Manufacture of Calcium Sulphate Hemihydrate by the
Grinding-Burning Method, by W. Lahl, H.E. Schwiete.
GERMAN, per, Zement-Kalk-Gips, 1959, pp 345.
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July 1967

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The Preparation of Raw Gypsum and Its Conversion
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and II, by E. Ripelbauer.

GERMAN, per, Zement-Kalk-Gips, Vol XI, No 6, 1958,
pp 264-272, Vol XII, No 8, 1959, pp 351-355.

NRCC TT-899

Sci - Chemistry
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Circuit Circuit Granting High Power and
Separations, by Eugene S. S. S. S.

OSWALD, per, Zarent-Kalk-Gips, Vol. 45, No. 1,
1958, pp 293-304.

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SLA 59-570

Sci
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Vol. 2, No 5

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Discharge Mechanisms ~~IF~~ for Shaft Kilns,
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GERMAN, per, Zement-Kalk-Gips, No 8,
1958, pp 345-357.

CSIRO

Sci - Engr
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Influence of Silicone Impregnation on the
permeability to Air, Water Absorption and Water
Elimination of Sand-lime Bricks, by H. Weissbach,

GERMAN, per, Zement-Kalk-Gips, Vol XX, No 8,
pp 357-364. ~~7758~~

C.S.I.R.O. 4254

Bei

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Electron Microscope Studies of Hardening Cement
Pastes, by W. Czornin, 4 p.

GERMAN, per, Zement-Kalk-Gips, 1958, Vol XI, No 9,
pp 381-383.

SLA 59-20327

Sci.
Mar 60
Vol 2, No 12

109,201

Closed Circuit Grinding of Cement, by E. Beke,
33 pp.

GERMAN, per, Zement-Kalk-Gips, Vol XI, No 12,
1958, pp 529-543.

SLA 59-15693

Sci
Dec 59
Vol 2, No 4

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Czech, R. and Gottschalk, F.
READY MIXED MORTAR IN SCANDINAVIA. Jul 61
Order from C. L. A. I. R. A. Laboratories, Church Street,
Welwyn, Herts, England £10 CLAIRA T.8

Trans. of Zement-Kalk-Gips (West Germany) 1958,
v. 11, no. 12, p. 550-562.

DESCRIPTORS: *Mortar, Construction materials.

TT-63-22906

- I. Title: Scandinavia
- I. Czech, R.
- II. Gottschalk, F.
- III. CLAIRA-T-8
- IV. Chalk Lime and Allied
Industries Research
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(Materials, TT, v. 11, no. 4)

Office of Technical Services

Physical Problems in the Testing of Concrete,
by H. Rusch, 21 pp.

GERMAN, per, Zemet-Kalk-Gips, Vol XII, No 1,
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SLA 59-15694

Sci
Dec 59
Vol 2, No 4

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Relationship Between Strength and Granulometric
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Investigations, by H. Gebelein.
GERMAN, per, Zement-Kalk-Gips, 1959.
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Modern Grinding Plants, by A. Bellwinkel, 29 p.

GERMAN, per, Zement-Kalk-Gips, 1959, Vol XII,
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SLA 59-17565

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Nomogram to be Used for Approximate Design
Calculations of Tube Mills, by E. Bernutat, 5 p.

GERMAN, per, Zement-Kalk-Gips, 1959, Vol XII,
No 2, pp 65-67

SLA 59-17564

Sci
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Vol 2, No 10

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Improvements in Drilling and Blasting
Techniques, by W. E. Fanner.

GERMAN, par, Cement-Building, Vol XII,
No 4, 1959, pp 154-156.

OSIRO

Sgt - Engr
Dec 61

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GERMAN, per, Zement Kalk, Vol XII, 1959,
pp 253-257.

Language Sv Bu

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SLA 50-400

Testing Corrosion Danger to Steel Reinforcement
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SIA 60-10243

Sci
Apr 60
Vol III, No 3

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The Effect of Additives on the Corrosion Behavior of
Steel in Concrete, by A. Baumel, 24 p.

GERMAN, per, Zement-Kalk-Gips, Vol XII, No 7,
pp 294-305.

SIA 60-10244

Sci
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Vol XII, No 3

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Suitability of Raw Gypsum for Cement Manufacture,
by E. Bartosch, 13 pp.

GERMAN, per, Zement-Kalk-Gips, Vol XII, No 8,
1959, pp 362-369.

SLA 60-10992

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(CSR. Col)

OTS, Vol III, No 8

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A New Method for the Accelerated Testing of the
Strength Development of Portland Cements, by
E. Brandenberger, 14 pp.

GERMAN, per, Zement-Kalk-Gips, Vol XII, No 9,
1959, pp 385-392.

SIA 60-14555

Sci

Apr 61

OTS, Vol III, No 12

163,251

The Reductive Capacity of Blast Furnace
Slags for Sulphated Metallurgical Cement,
by H. Tamura. UNCL

CHIMIAE, per, Zement-Kalk-Gips, Sep 1959,
pp 392-408.

BISI 1501

To be included with file of Sci (17 109.01.)
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Sci - Min/Met

Feb 60

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White Portland Cement Containing Barium Oxide, by
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GERMAN, per, Zement-Kalk-Gips, Vol XII, No 9,
1959, pp 412-414.

INSDOC/Ref T.4896

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Mar 63

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The Plastic Behaviour of Lime Mortar, by
A. Bachman. UNCL

CHIMIE, par, Zement-Kalk-Gips, No 10, 1959,
pp 449-456.

SLA 62-14110
RISI 1500

(L5 15a.01.)
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Oct 2 Min/Mat
Feb 60

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Hydration Mechanism of Calcium Oxide and
Plastic Properties of Pastes of Hydrate of
Lime, by J. Wührer, et al.

GERMAN, per, Zement-Kalk-Gips, No 10,
1999, pp 456-465.

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Sci - Chem, Min/Met

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191, 727

Influence of Heat Transfer on the
Output of the Burning Zone of Lime
Shaft Kilns, by G. Balazsovics,

~~GERMAN, per, Zement-Kalk-Beiz,~~
No 10, 1959, pp 466-471.

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Sci - Min/Met
Jul 62

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COMPANY in the same industry, of 1951-1952
6 pp.

GERMAN, per, Zement Kalk Gips, Vol. III, No. 10,
1959, pp. I 481-484.

SIA 60 11257

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Jan 62
Vol. III, No. 10

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61-10200

Wieland, W.
DETERMINATION OF THE GRAIN SIZE DISTRIBUTION OF POWDERED MATERIALS. Foreign Literature Study No. 308. [1960] 8p. 9 refs.
Order from SLA mi\$1.80, ph\$1.80 61-10200

Trans. of Zement-Kalk-Gips (West Germany) 1959, v. 12, no. 11, p. 516-519.

Some common measurement methods and their interpretations are shown to disguise the true particle size distribution of the products of ball mill grinding and to suppress certain characteristic features.

148, 474

(Engineering--Chemical, TT, v. 5, no. 7)

1. Particles--Measurement
2. Cements--Analysis
3. Powders--Measurement
4. Title: Granulation
- I. Wieland, W.
- II. Title: Foreign ...

Office of Technical Services

Recent Investigations Concerning the
Quality of Limes With Different Degrees
of Burning, by G. Pohl.

CHETMAN, par, Zement-Kalk-Gips, No 12,
1959, pp 566-572.

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Production of Creep-Resistant Hard Gypsum ~~PL~~
Plasters, by E. Eipeltauer.
GERMAN, per, Zement-Kalk-Gips, 1960.
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Sci - Mat/Met
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The Rilen-Gembureau Method for Testing the
Strength of Cement, by R. Dutron. UNCL

GERMAN, per, Zement-Kalk-Gips, No 2, 1960,
pp 64-70.

SISI 1721

(L3. 10a. 0a.)

SLA 64-16875

Sci - Min/Int
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The Testing the Cement by the Nilom-Cem Method,
by P. Keil, H. Mathieu. UNCL

GERMAN, per, Zement-Kalk-Gips, No 2, 1960,
pp 70-78.

62-16877

BIISI 1723

(14. 10. 01.)

Sci - Min/Met
Jun 60

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Heat Losses of the Rotary Kiln Shell in the Cement
Industry as a Function of Time, by F. Matouschek.
GERMAN, per, Zement-Kalk-Gips, No 3, 1960,
pp 98-100.
CSIRO No 6542

Sci - Engr
Jun 64

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Investigations on Cement and Concrete With Exor
Electrons After Exposure to X-Rays, by J. Kramer.

GERMAN, per, Zement-Kalk-Gips, No 3, 1960,
pp 111-118.

BISI 1707

Sci - Min/Met; Phys

SLA 62-16871

Jul 60

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Wührer, J.
SCIENTIFIC AND PROCESSING PROBLEMS IN THE
BURNING OF PORTLAND CEMENT CLINKER
FROM QUICKLIME. [1962] 34p. 9 refs.
Order from SLA \$3.60 62-14300

Trans. of Zement-Kalk-Gips (West Germany) 1960,
v. 13, no. 5, p.181-192.

DESCRIPTORS: *Calcium compounds, Oxides,
*Cements, Combustion, Processing.

(Engineering--Chemical, TT, v. 8, no. 9)

62-14300

1. Title: Clinker
1. Wührer, J.

Office of Technical Services

BOOK C MODERN PHYSICAL TEST METHODS IN THE LIME AND CEMENT INDUSTRY. Paper presented at Association of German Lime Mfgs., Technical Section (no. 4) Goslar, 18 Oct 59. Foreign literature study no. 310. (1960) 7p. (1 fig. omitted). Order from SLA nu\$1.80, ph\$1.80. 61-10217 Trans. of Zement-Kalk-Gips (West Germany) 1960, v. 13, no. 6, p. 250-254. X-ray diagrams and the results of counts of samples of lime and cement are discussed. Elements down to atomic number 11 can be determined. Elements with atomic number 11 to 20 have to be determined in the vacuum spectrograph, because too much absorption of the radiation occurs in air. (Author) (Materials, TT, v. 5, no. 3)	61-10217 1. Cement--Test methods 2. Calcium oxides--Test methods I. Frank, G. II. Title: Association... III. Title: Foreign... 142,933 Office: Technical Services
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Automatic Central Grease Lubrication in the
Cement Industry, by G. Schmerson.

GERMAN, per, Zement-Kalk-Gips, Vol XIII,
No 6, 1960, pp 274-278.

CSIRO

Sci - Engr
Aug 62

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Investigation of Gypsum and Anhydrite by
Differential Thermal Analysis, by T.
Wiedmann.

GERMAN, per, Zement-Kalk-Gips, Vol XIII,
No 7, 1960, pp 293-301

CSIRO

Sci - Min/Men
Oct 61

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Bock, H.
NOMOGRAMS FOR DETERMINING OPERATING
DATA FOR LIME KILNS. Jul 61.
Order from C. I. A. I. R. A. Laboratories, Church Street,
Welwyn, Herts, England £5 CLAIRA T. 12

Trans. of Zement-Kalk-Gips (West Germany) 1960,
v. 13, no. 7, p. 302-310.

DESCRIPTORS: *Furnaces, Operation, Nomographs,
*Calcium compounds, Oxides, Cement kilns.

(Materials, TT, v. 11, no. 4)

TT-63-22910

- I. Bock, H.
- II. CLAIRA-T-12
- III. Chalk Lime and Allied
Industries Research
Association (Gt. Brit.)

Office of Technical Services

Lieber, W. and Rieher, K.
TESTING OF SULFATE RESISTANCE OF CE-
MENTS BY CONVENTIONAL RAPID METHODS.
Foreign Literature Study no. 307. [1960] [13]p.
14 refs.

Obt. from SLA ml\$2.40, ph\$3.30 61-10204

Zement-Kalib-Gips (West Germany) 1960,
no. 11, pp. 317-324.

Tests showed that none of the earlier proposed rapid
testing methods can be considered as an all-around
method. A suitable method was recently developed by
Koch and Rieher (Zement-Kalib-Gips 13: 317-324,
1960) available in translation from SLA ml\$1.80,
ph\$1.60 as 61-10205).

(Materials, IT, v. 5, no. 4)

61-10204

1. Cements--Chemical reactions
2. Sulfates--Chemical effects
1. Lieber, W.
- II. Rieher, K.
- III. 143,204

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Koch, A. and Steinegger, H.
AN ACCELERATED METHOD FOR TESTING THE
SULFATE RESISTANCE OF CEMENTS. Foreign
Literature Study no. 306. [1960] 10p. (21 figs.
omitted) 6 refs.
Order from SLA mt\$1.80, ph\$1.80 61-10205

Trans. of Zernern-Valk-Gips (West Germany) 1960,
v. 15, no. 7, p. 317-324.

1. The test is for 6-cm prisms of standard 1:1:7
cement are immersed in a 10% Na_2SO_4 100% solution
for 24 hours and then 5-1 during storage by means
of suitable chemical and physical methods, and by vis-
ual observation. This method permits large
differences in the behavior of cements in the relatively
short time of 1 month at the most, but permits the
observation of later, gradual changes.

(Materials, ET, v. 5, no. 4)

61-10205

1. Cements--Chemical reactions
2. Sulfates--Chemical effects
- I. Koch, A.
- II. Steinegger, H.
- III. Title: Foreign...

143,206

Office of Technical Services

62-22390

Fleck, K.
WHIRLWIND AIR SEPARATORS (Streu Windsichter).
Aug 62.
Order from S. Muller, 1614-27 Street, Orlando, Fla.
\$46.50

Trans. of Zement-Kalk-Gips (West Germany) 1960
[v. 13] no. 11, p. 501-522.

DESCRIPTORS: *Air, Separation, Machines.

1. Title: Whirlwind separator
1. Fleck, K.
- II. Muller, S., Orlando, Fla.

(Machinery, Fabrications and Accessory Equipment,
TT, v. 8, no. 8)

Office of Technical Services

Schloemer, H.
THE USE OF X-RAY FLUORESCENCE ANALYSIS IN
CEMENT CHEMISTRY. [1961] 16p. 3 refs.
Order from SLA \$1.60 61-18712

Trans. ~~of~~ Zement-Kalk-Gips (West Germany) 1960,
v. 13, no. 11, p. 522-530.

DESCRIPTORS: *Cements, Fluorescence, Construction,
Materials, *X-ray spectroscopy, Chemical analysis.

The method and nature of X-ray fluorescence analysis
are described. In connection with the plotting of cali-
bration curves the preliminary treatment of the sam-
ples of material is of importance. The shape of the
calibration curve of two mixtures, viz., $\text{CaCO}_3\text{-MgO}$
and $\text{CaCO}_3\text{-SiO}_2$, and the manner in which the latter is
affected by the third component Al_2O_3 , are discussed.

(Physics--Spectroscopy, TT, v. 6, no. 9) (over)

61-18712

1. Schloemer, H.

185476

Office of Technical Services

61-20557

Wittekindt, W.
SULFATE RESISTANT CEMENTS AND THEIR TEST-
ING. [1961] 18p. (1 photo omitted) 40 refs.
Order from SLA \$1.60 61-20557

1. Wittekindt, W.

Trans. of ~~Zement-Kalk-Gips~~ (West Germany) 1960,
v. 13, no. 12, p. 565-572.

DESCRIPTORS: *Cements, *Sulfates, Resistance,
Materials, Chemical properties, Concrete, Tests.

(Materials, TT, v. 7, no. 1)

Office of Technical Services

61-18709

Krämer, H.
COMPARATIVE MICROSCOPIC INVESTIGATIONS ON
CEMENT CLINKERS. [1961] 12p. 11 refs.
Order from SLA \$1.60

61-18709

Trans. of Zement-Kalk-Gips (West Germany) 1960,
v. 13, no. 12, p. 572-579.

DESCRIPTORS: *Cements, *Brick, Microanalysis.

The microstructure of a clinker is dependent upon the chemical composition and the technical influencing factors. The effect of these factors (which include the preparation of the raw material, the burning conditions and the rate of cooling) on the microstructure of the clinker is described with the aid of a large number of photographs.

(Materials, TT, v. 6, no. 9)

1. Title: Clinker phases
1. Krämer, H.

927237

Office of Technical Services

63-18394

Hilber, H.
STABILITY MEASUREMENTS ON ROTARY KILN
SHELLS BY "SHELLTEST". [1963] 25p. (figs. table
refs. omitted).
Order from SLA \$2.60 63-18394

Trans. of Zement-Kalk-Gips (West Germany) 1961,
v. 14, no. 1, p. 1-16.

DESCRIPTORS: *Rotary furnaces, *Structural shells,
Deformation, *Refractory materials, Stresses, Load
distribution, Combustion chamber liners.

With the Swedish "Shelltest" instrument in combination
with the "Shelltest Recorder" it is possible to de-
termine the kiln shell deformation by a measurement
technique. The deformation curves permit inferences
to be drawn regarding the maximum shell deformations,
loading conditions, roller adjustment, and the state of
(Machinery--Manufacturing, TT, v. 10, no. 11) (over)

1. Title: Shelltest
1. Hilber, H.

Office of Technical Services

Development Trends in the Construction of Concrete
Making Plant, by A. Bellwinkel, 46 pgs

GERMAN, per, Cement-Kalk-Gips, Vol XIV, No 2,
1961, pp 42-56.

CSIR 181

Sci
WEur - Germany

171, 630

Econ

Oct 61

Potential Analysis-Lime Standard-Lime Error, by E.
Spohn, E. Woermann.
GERMAN, per Zement-Kalk-Gips, Vol. 14, No. 2, 1961,
pp 56-67
CSIRO/No.7654

Sci -
Sep 1967

339-728

62-18704

Spohn, E.
THE HAUENSHILD REACTION IN THE CEMENT
SHAFT KILN. 1 Aug 62 [6]p. (figs. refs. omitted).
Order from SLA \$1.10 62-18704

Summary trans. of Zement-Kalk-Gips (West Germany)
1961, v. 14, no. 3, p. 105-108.

DESCRIPTORS: *Cements, Production, Materials,
Sintering furnaces, *Chemical reactions

(Materials, TT, v. 9, no. 11)

1. Title: Havenshild reaction
1. Spohn, E.

Office of Technical Services

61-18708

Tomek, J. and Vavrin, F.
THE PROBLEM OF CORROSION OF STEEL IN
CONCRETE BY CALCIUM CHLORIDE. [1961] 10p.

1 ref.

Order from SLA \$1.10

61-18708

Trans. of Zement-Kalk-Gips (West Germany) 1961,
v. 14, no. 3, p. 108-112.

DESCRIPTORS: *Steel, *Corrosion, *Concrete,
*Reinforcing steel, *Calcium compounds, Corrosion
research, *Chlorides.

Investigations showed that calcium chloride acts in the
concrete as an electrolyte which intensifies the action
of the corrosion elements on the surface of the steel.
With the co-operation of oxygen and moisture which
penetrate the concrete, a fairly large admixture of
calcium chloride especially intensifies the action of
(Metallurgy--Corrosion, TT, v. 6, no. 12) (over)

J. Tomek,
F. Vavrin.

Office of Technical Services

Uchikawa, H. and Takagi, S.
ELECTRON MICROSCOPE STUDIES OF COM-
PLETELY HYDRATED CLINKER COMPONENTS.
[1962] 7p. (18 figs. omitted) 8 refs.
Order from SLA \$1.10

62-14215

Trans. of Zement-Kalk-Gips (West Germany) 1961,
v. 14, no. 4, p. 153-158.

DESCRIPTORS: *Electron microscopes, *Cements,
Water, Ball mills, Hydrates, Gypsum, Synthesis.

The surface and internal structure of completely hy-
drated and hardened cement clinker components, and
their mixtures with and without gypsum, were in-
vestigated by electron-microscopic methods using
ultra-microtome sections. The samples were hy-
drated in a ball mill at 20°C with a water/cement
ratio of 0.8. As a result of these experiments the
process of hardening and strength development can
(Engineering--Chemical, TT, v. 8, no. 9) (over)

62-14215

1. Title: Clinker
I. Uchikawa, H.
II. Takagi, S.

Office of Technical Services

Optical Quantitative Phase Determination
in Clinkers and Cements, by H. Kramer.
GERMAN, per Zem.-Kalk-Gips, No. 5, 1961,
pp 207-211
CSIRO/ No. 7926

Sci -
Aug 67

337-364

The Heat Consumption of the Cement Kiln, by A.
Elnas, 37pp
CHROMAN, per, Zement-Kalk-Gips, Vol 14, 1961,
No 7, pp 297-305
SLA TT-64-30205

Sci - Mat
June 67

327,455

Drosihn, U.
METAL WEAR IN TUBE MILLS. [1963] 28p (figs
omitted) 12refs
Order from SLA \$2.60 63-20307

Trans. of Zement-Kalk-Gips (West Germany) 1961,
v. 14, no. 8, p. 325-339.

DESCRIPTORS: Wear resistance, *Ball mills, Steel,
Hardness, *Cements, Production, *Grinders.

Topics include: relation of mill wear to production
costs; grinding process in the tube mill; wear of metals
used heretofore; tests of highly wear resistant ball
charge; evaluation of mill liners; correct evaluation of
mill metal loss; and hardness test.

(Machinery, Fabrications and Accessory Equipment,
TT, v. 10, no. 12)

63-20307

1. Title: Tube mills
1. Drosihn, U.

Office of Technical Services

Inferences From Stability Measurements on
Rotary Kiln Shells, by H. Hilber, 1961.

GERMAN, per, Zement-Kalk-Gips, Vol L, No 8,
1961, pp 339-346.

CSIRO/No 5814

SLA 63-12393

Sci-Engr
Mar 63

225,254

63-10182

I. Catharin, P.

Catharin, P.
NON-DESTRUCTIVE TESTING OF STANDARD
PRISMS AS A DETERMINATION OF COMPRESSIVE
STRENGTH. [1962] 35p. 50 refs.
Order from SLA \$3. 60 63-10182

Trans. of Zement-Kalk-Gips (West Germany) 1961,
v. 14, no. 9, p. 370-383.

DESCRIPTORS: *Structural parts, *Prisms, *Concrete,
Compressive properties, Determination, *Non-
destructive testing, Cements, Hardening.

Tests to-date indicate that by means of the derived
formulas we can compute the compressive strength
from the E- and G- moduli, when cement quality is
known. Accuracy can be described as satisfactory,
when one bears in mind that considerable differences in
compressive strength are recorded on standard prisms
(Materials, TT, v. 10, no. 2) (over)

Office of Technical Services

Exposition in Gernant, by H. H. H. H.

GERMAN, per. Zement-Kalk-Gips, Vol. XIV,
No 11, 1951. pp. 504-507

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May 63

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TT-64-14259

Kono, H.
RATE OF COMBUSTION OF FUEL IN THE NODULES
OF THE CEMENT SHAFT KILN. [1963] [31p] 12refs
Order from SLA \$3.60 TT-64-14259

Trans. of Zement-Kalk-Gips (West Germany) 1961,
v. 14, no. 11, p. 507-514. (Abstract available)

DESCRIPTORS: *Pellets, *Cements, Coal, Fuels,
*Combustion, Heat of activation, Reaction kinetics,
Sintering furnaces.

Nodules made from decarbonated cement raw meal, in
which anthracite particles of different sizes had been
embedded, served as the model for the combustion pro-
cess in the cement shaft kiln. Combustion was effected
in flowing air at constant temperatures below the sinter-
ing temperature of the raw meal. The transformation
was measured in terms of the amount of CO₂ evolved
(Materials, TT, v. 11, no. 7) (over)

1. Title: Clinker cement
1. Kono, H.

Office of Technical Services

Problem of the Physico-Chemical Behaviour of
Hydrating Cement in Concrete, by W. Grun, H. Grun.
GERMAN, per Zement-Kalk-Gips, Vol. 50, No.11, 1961,
pp 514-520.
CSIRO/No. 6146

Sci -
July 1967

334,005

Hydrothermal Reactions Between Calcium and Siliceous
Materials at 120° - 220°C, by G. O. Assarsson.
GERMAN, per, Zement Kalk Gips, Vol XIV, No 12, 1961,
pp 537-544.

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Sci - Chem

Feb 64

250,483

Formation of Calcium Silicates and Aluminates
From Calcium Carbonate and Oxides in the
Presence of Foreign Fluxes, by C. Kroger,
G. Fulop, 4 pp
GERMAN, per, Zement-Kalk-Gips, Vol 14, 1961,
No 12, pp 545-558
SLA TT-64-30026

Sci - Mat
N M June 67

327,449

63-10746

Smolczyk, H. G.
X-RAY DETERMINATION OF THE CRYSTALLINE
PHASES OF PORTLAND CEMENT CLINKER. 2 Jan 63,
37p. 27 refs.
Order from SLA \$3.60

63-10746

Trans. of Zement-Kalk-Gips (West Germany) 1961,
v. 14, no. 12, p. 558-566.

DESCRIPTORS: *Cements, *Fused materials,
Quantitative analysis, Phase transitions, *X-ray
diffraction analysis, Goniometers, Crystal structure.

1. Title: Clinkers
1. Smolczyk, H. G.

(Materials, TT, v. 9, no. 11)

Office of Technical Services